TotalFlash®

Material Safety Data Sheet

TotalFlash® Components High Performance Thermoplastic Polyolefin (TPO) Flashing Membrane

Manufacturer

Mortar Net Solutions®
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Section 1 - Chemical Product

		HMIS	
Chemical Formula:	Thermoplastic	**H**	2*
Other Designations:	N/A	**F**	0
		R	0

******** Emergency Overview ********

Contains Antimony Trioxide, possible human carcinogen
Do Not allow material to enter streams or waterways per 40 CFR 122.26, "Significant Material"
Cover any exposed body areas where skin contact with molten material is possible

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Resin	9010-79-1	0-100
Carbon Black	1333-86-4	0-5

Section 3 - Physical and Chemical Properties

Physical State:	Solid	**Water Solubility:**	Insoluble
Appearance and Odor:	Pellet form - Essentially Odorless	**% Volatile:**	<1%
Odor Threshold:	Not Available		
Specific Gravity:	Not determined		

Section 4 - Fire-Fighting Measures

Auto Ignition Temperature: Not Determined
Flammability Classification: 0
Extinguishing Media: Carbon Dioxide, Water Fog, Foam
Unusual Fire or Explosion Hazards: None
Fire-Fighting Instructions: Do not release pellet contaminated runoff from fire control methods to sewers or waterways.
Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 5 - Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.
Polymerization: Hazardous polymerization cannot occur.
Chemical Incompatibilities: Strong Oxidizing Agents (Antimony trioxide only-Strong acids, bases, and hot perchloric acid)
Conditions to Avoid: Same as above
Hazardous Decomposition Products: Thermal oxidative decomposition may yield carbon monoxide, carbon dioxide and low molecular weight hydrocarbons.
(1163-19-5-Hydrogen Bromide and/or Bromine, Carbon Monoxide and Carbon Dioxide)
(1309-64-4-Oxides of Antimony,)

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Section 6 - Health Hazard Information

Potential Health Effects

Primary Entry Routes: **Inhalation and dermal.** Low risk of entry in pellet form unless dusting occurs.

Acute Effects

Inhalation: Low hazard for ususal industrial or commercial handling. Dust could cause respiratory irritation.
Eye: Low hazard for ususal industrial or commercial handling. Dust could cause eye irritation.
Skin: Low hazard for ususal industrial or commercial handling. Contact could cause skin irritation.
Ingestion: Is not expected to occur. If swallowed, may physically irritate digestive system.

Safety: Slipping hazard if spilled on hard, smooth walking surfaces.

Carcinogenicity

Carbon Black — IARC: Group 2B (Possibly Carcinogenic to Humans)
OSHA: No
NTP: No

Exposure Limits:

Carbon Black — OSHA: 3.5 mg/m3 TWA
ACGIH: 3.0 mg/m3 TWA

Emergency and First Aid Procedures

Inhalation: If breathing is difficult, remove to fresh air, call a physician.
Eye Contact: Flush eyes with plenty of water for at least 15 minutes, call a physician.
Skin Contact: Cleanse skin after handling. If irritation occurs consult a physician.
Ingestion: If swallowed contact a physician. Do not induce vomiting unless directed by a physician to do so.
After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 7 - Spill, Leak, and Disposal Procedures

Spill / Leak Procedures: Shut off source, advise authorities of possible floating material.
Containment: Do not release into sewers or waterways.
Cleanup: Place waste in box or other contianer suitable for recycle or disposal.
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120). Plastic pellets are defined by USEPA under the Clean Water Act (40 CFR 122.26 as a "Significant Material" which may require a storm water permit.
Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicalbe Federal, state, and local regulations.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:
Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs, and for fume c ontrol during thermal processing.
Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:
Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA repirator regulations (29 CFR 1910.134).

Protective Clothing / Equipment: Wear protective eyeglasses or chemical saftey goggles. per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protection devices. Appropriate eye protection

	must be worn instead of, or in conjunction with contact lenses. Cover body areas where contact with molten material may occur. Severe burns could result if molten material contacts skin.
Safety Stations:	Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
Contaminated Equipment:	Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.
Comments:	Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Special Precautions and Comments

Handling Precautions: Wear gloves when material is in molten state and cover other body areas if contact is possible.
Storage Requirements: Do not store near flame or heat.

Section 10 – Regulatory Information

U.S Federal Regulations:
SARA 313 Reporting Requirements:

Antimony Trioxide:	de minimis concentration = 1.0
Decabromodiphenyl Oxide:	de minimis concentration = 1.0
Lead:	de minimis concentration = 0.1

CERCLA Reportale Quantities:
Antimony Trioxide RQ: 1,000 lbs.

OSHA:
Fibrous Glass - NIOSH
Antimony and Compounds: 29 CFR 1910.1000 "Air Contaminants"
Toxics Substance Control Act (TSCA) Inventory:
Components are either on the list or exempt from the list.

State Regulations:
Antimony Trioxide (1309-64-4):
New Jersey Right to Know Substance List (1% reporting limit)
Massachusetts Substance List
Pennsylvania Environmental Hazard List
California Proposition 65: Known to the State of California to cause cancer and reproductive toxicity

Decabromodiphenyl Oxide (1163-19-5):
New Jersey Right to Know Substance List
Massachusetts Substance List
Pennsylvania Environmental Hazard List

Fibrous Glass (65997-17-3):
New Jersey Right to Know Substance List
Massachusetts Substance List
California Proposition 65

Carbon Black (1333-86-4):
New Jersey Right to Know Substance List
Massachusetts Substance List
California Proposition 65

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International Regulations:
Materials contained in this product that are listed on the following international lists:

Canadian-DSL/NDSL:
All materials

EU-EINECS/ELINCS:
All materials

Australian-Designated Hazardous Substance List:

1309-64-4 Antimony Trioxide

DOT Transportation Data (49 CFR 172.101)

Shipping Name: TPO-9203-90 GRAY UV
Prepared By: Safety Department
Revision Notes: Any questions call 724-206-4282
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